

Rugged Mini E3 v3

(Standard Chassis)

Technical Specifications



Specifications

System	
Processor	Intel 13th Gen. Raptor Lake Core i5/i7/i9 Processors
System Chipset	Intel® R680E Chipset
Graphics Controller	Intel UHD Graphics 770 (Core CPU)
LAN Chipset	2x 2.5GbE: Intel I226-LM
Audio	Realtek ALC888/1200
System Memory	Up to 64GB DDR5 4800 (2x SO-DIMM)
BIOS	AMI 256Mbit
TPM	TPM 2.0 (dTPM Infineon)
vPro	Yes (Processor Dependent)
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Operating System	
Windows	Windows 11 Pro 64bit Windows 11 IoT Enterprise Windows 11 IoT Enterprise LTSC
Storage	
SSD/HDD	1x 2.5" SATA SSD/HDD Bay (Internal) supports 9mm drives 1x 2.5" SATA SSD Bay (Removable) supports 7mm drives
mSATA	1x mSATA (shared with 1x Mini PCIe)
RAID Support	RAID 0,1
Expansion	
M.2	1 x M.2 (E key) supports M.2 2230 for Wi-Fi
Other Features	
Cooling Method	Fanless

Features

- Intel 13th Gen. Raptor Lake Core i5/i7/i9 Processors
- Intel® R680E Chipset
- 2x 260-pin DDR5 SO-DIMM, up to 64GB
- Triple independent display
- 2x Intel® 2.5GbE supporting Wake-on-LAN and PXE
- 2x 2.5" SATA SSD/HDD bay and mSATA MiniPCIe storage options
- 2x Full-size mini PCIe for communication or expansion modules, 2x SIM socket
- 2x RS-232/422/485, 8x USB 3.2
- 16-bit Isolated digital I/O
- 9 ~ 48VDC wide range power input
- -25°C to 70°C extended operating temperature
- Vehicle ignition sensing

Physical

Enclosure Materials	Extruded Aluminum with Heavy Duty Metal
Dimensions (W x H x D)	9.45" x 10.27" x 3.15" (240 x 261 x 79.2 mm)
Weight	9.92lbs (4.5Kg)
Mounting	Wall Mount Only
I/O	
Video	1x DVI-I 2x DP (Display Port)
COM	2x DB9 Serial RS232/422/485, COM1 ~ 2 2x Internal headers RS232/422/485, COM3 & COM3 (Requires optional bracket adapter)
USB	Standard Model: 4x USB 3.2 Gen1 (Front) 4x USB 3.2 Gen2 (Rear)
LAN	2x 2.5GbE RJ45
WLAN	Intel AX2xx, 802.11ax, 2T2R, Wi-Fi/BT card (Optional)
Others	1 x Power Switch 1x AT/ATX Switch 1x Remote Power Switch (2 pin Phoenix Connector)
Power	
Power Mode	AT/ATX
Power Input Voltage	9 ~ 48 VDC
Power Ignition Sensing	Yes
Power Connector	5-pin Phoenix Connector
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) RPP (Reverse Polarity Protection)
Power Adapter	External Power Adapter, 24V @9.16A
Environment	
Operating Temp.	-13°F - 158°F (-25°C - 70°C)
Storage Temp.	-22°F - 185°F (-30°C - 85°C)
Humidity	10% - 95% non-condensing
Shock	With SSD: 50 G, half sine, 11 ms
Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
Certification	CE, FCC Class A
Warranty	
Warranty	1-year standard